

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: KIM, Min-won

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EXAMINER: Mellon, D. C.

TITLE: FLUID FLOW INTERRUPTION MEANS FOR FILTER OF WATER PURIFIER

Amendment C: CLAIM AMENDMENTS

Claims 1-4 (canceled).

5. (new) A filter apparatus for a water purifier comprising:

a head having a guide passage and an inlet port and an outlet port, said guide passage suitable for guiding fluid into said head through said inlet port, said outlet port suitable for discharging purified fluid from said head;

a filter body threadedly locked to said head, said filter body in fluid communication with said guide passage and said inlet port and said outlet so as to receive fluid from said guide passage and said inlet port and to transfer purified fluid to said outlet port, said filter body having at least one through hole defined at an upper end thereof so as to allow fluid to flow from said guide passage into said filter body; and

a fluid flow interrupter disposed in said guide passage between said inlet port and said filter body, said fluid flow interrupter having a fluid guide rod formed at one end thereof, said fluid flow interrupter having an opening and a closing body connected to said fluid guide rod, said opening and closing body having a gradually decreasing diameter, said fluid flow interrupter having an O-ring fitted around said opening and closing body, said fluid flow interrupter having an opening and closing projection formed adjacent an opposite end thereof, said fluid flow interrupter having an elastic spring positioned within said guide passage suitable for controllably opening and closing

said guide passage by force of said elastic spring when said head and said filter body are coupled and uncoupled from each other, said fluid guide rod being inserted through one end of said elastic spring, said fluid flow interrupter having a hollow cylindrical protuberance formed at one end of the guide passage, said elastic spring having another end fitted around said hollow cylindrical protuberance, said hollow cylindrical protuberance having an inner diameter greater than an outer diameter of said fluid guide rod, said hollow cylindrical protuberance suitable for allowing fluid to flow therethrough from said inlet port to said guide passage, said guide passage having a gradually decreasing inner diameter at an opposite end thereof.

6. (new) The filter apparatus of Claim 5, further comprising:

a bracket having one end coupled to an outer surface of said head and an opposite end suitable for fastening to a wall.